

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) An induction heating system for heating metal products, in particular metal strips, using a longitudinal magnetic flux, ~~characterized in that the heating system comprising: the an inductor (6) surrounding the strip; and includes, inside it, two magnetic field deflectors (7, 7'), located inside coils of the inductor, the shape and arrangement of which are selected such that they mask the deflectors masking the inductor coils at the edges (2) of the strip (4).~~

2. (Currently Amended) The heating system as claimed in claim 1, ~~characterized in that wherein~~ the deflectors (7, 7') are U-shaped, with the branches covering the edges (2) of the strip to be heated.

3. (Currently Amended) The heating system as claimed in claim 1, ~~characterized in that wherein~~ the deflectors (7, 7') are positioned along all or part of the length of the inductor (6).

4. (Currently Amended) The heating system as claimed in claim 1, ~~characterized in that the together with~~ U-shaped screens located inside the inductor ~~have having~~ ends which are shaped so as to increase their effectiveness.